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Total No. of Pages : 02

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B.Tech.(Biotechnology) (Sem.-6) ENZYMOLOGY AND ENZYME TECHNOLOGY Subject Code : BTBT-603 M.Code: 71074

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTION TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students 3. have to attempt any TWO questions.

SECTION-A

1.

- f) Microencapsulation
- g) Enzyme reactors
- h) Biocatalysis
- i) Monomeric enzymes
- i) Enzyme active site



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SECTION-B

- 2. Describe briefly industrial applications of enzymes.
- 3. Discuss Koshland induced-fit hypothesis.
- 4. Describe the covalent coupling and cross linking of enzymes.
- 5. What do you understand from steady state analysis of mass transfer? Explain mass transfer in enzyme reactors.
- 6. Describe the Haldane relationship for reversible reactions.

SECTION-C

- 7. Discuss enzyme catalysis in organic media. Also highlight its challenges and future perspectives.
- 8. Describe the criteria used for the selection of a enzyme reactor. Describe idealized enzyme reactor systems.
- 9. Describe the Henri & Michaelis-Menton equation and Briggs-Haldane modification of the Michaelis-Menton equation. Also highlight significance of Michaelis-Menton equation.

NOTE : Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC case against the Student.